Mathematics

Date:18 /June/2024
Period: 2:00PM to 4:00PM

NESA | **NATIONAL EXAMINATION AND SCHOOL INSPECTION AUTHORITY**

END OF TERM III EXAMINATIONS QUESTION PAPER

GRADE: **PRIMARY FOUR**

OPTION: **PRIMARY**

DURATION: **2 HOURS**

MARKS: | /50 | **CAMIS** | ....../80 |

INSTRUCTIONS

1) This paper contains **three** sections.

   Section A: Attempt **all** questions. **(30 marks)**

   Section B: Attempt **all** questions. **(8 marks)**

   Section C: Attempt **all** questions. **(12 marks)**

2) **Geometrical instruments** may be used.

3) Use only a **blue** or **black** pen.

SECTION A: ANSWER ALL QUESTIONS. **(30 marks)**

1. a) Write the following number in figures: **(2 marks)**

   Two thousand seven hundred fifty-nine.

   b) Write the place values of digits 7 and 9 in the number 78396. **(2 marks)**

2. A father had 23 sweets and decided to give the sweets to his four children equally.

   a) How many sweets did each child get? **(2 marks)**

   b) How many sweets did he remain with? **(2 marks)**

3. Compare the following integers using <, > or = **(2 marks)**
   a) -301 .... +1
   b) 0........... − 15

4. a) List all odd numbers less than 20. **(3 marks)**

   b) List all the prime numbers between 0 and 10. **(1 mark)**

5. Calculate the Least Common Multiple (LCM) of

 12 and 15. **(5 marks)**

6. Express the fraction below in figures. **(3 marks)**

   a) A quarter
   b) A half
   c) Four sixths

7. Choose the correct missing numbers in the sequence

 10, 15, 20, ..., ...,35. **(4 marks)**

   a) 30,25
   b) 25,30

SECTION B: ANSWER ALL QUESTIONS. **(8 marks)**

8. Work out: 5km + 4m =...... dm **(2marks)**

9. Work out the following:
   250dag - 25 dg= .... mg **(2 marks)**

10. Find the area of a square whose side is 12cm. **(2 marks)**

11. Forty students went for a trip to Lake Kivu. If each student

paid 6,250 Frw. How much did they pay altogether? **(2 marks)**

SECTION C: ANSWER ALL QUESTIONS. **(12 marks)**

12. Two angles are supplementary. One angle is 44^0.

    Find the second angle. **(2 marks)**

13. The triangle has an area of 100 cm^2 and a base of 10 cm.

    What is the height of the triangle? **(3 marks)**

14. The table below shows marks obtained by P4 pupils in

    Mathematics test out of 20.

       5; 6; 10; 10; 15; 12; 18; 16; 17; 15; 19; 11; 12; 13.

    a) How many pupils did the test? **(1 mark)**

    b) How many pupils scored more than 15 marks? **(2 marks)**

    c) How many pupils got less than 10 marks? **(2 marks)**

   d) What was the highest marks scored? **(1 mark)**

15. Fill in with the correct term in brackets (statistics, probability, number).

.... is the chance that something will happen. **(1 mark)**

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END OF TERM III EXAMINATIONS MARKING GUIDE

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INSTRUCTIONS

1)   This paper contains **three** sections.

  Section A: Attempt **all** questions.   **(30 marks)**

  Section B: Attempt **all** questions.   **(8 marks)**

  Section C: Attempt **all** questions.   **(12 marks)**

2) **Geometrical instruments** may be used.

3) Use only a **blue** or **black** pen.

SECTION A: ANSWER ALL QUESTIONS. **(30 marks)**

1. a) Write the following numbers in   figures: **(2 marks)**
   Two thousand seven hundred fifty-nine: **2759**

   b) Write the place values of digits 7 and 9 in the number 78396.

   The place value of digit 7 is **ten thousands.** **(1 mark)**

    The place value of digit 9 is **tens.** **(1 mark)**

2. A father had 23 sweets and decided to give the sweets to his four
   children equally.
   a) How many sweets did each child get?

   b) How many sweets did he remain with?

ANSWER 2

       a) 23sweets ÷ 4 **(2 marks)**

           = 5 Remain3 **(1 mark)**

       b) remaining sweets = 3 **(1 mark)**

3. Compare the following integers using <, > or =
ANSWER 3

   a) -301   <   +1 **(1 mark)**
   b) 0   >   − 15 **(1 mark)**

4. a) List all odd numbers less than 20.

   b) List all the prime numbers between 0 and 10.

ANSWER 4

   a) Odd numbers = {1, 3, 5 ,7, 9, 11, 13, 15, 17, 19} **(3 marks)**

   b) Prime numbers: 2,3,5,7 **(1 mark)**

5. Calculate the Least Common Multiple (LCM) of
 12 and 15

ANSWER 5

Multiples of 12 = {12, 24, 36, 48, **60**, 72, 84, 96, 108, ...} **(2 marks)**

Multiples of 15 = {15, 30, 45, **60,** 75, 90, 105, 120, 135, ...} **(2 marks)**

So, **the LCM of 12 and 15 = 60** **1 mark**

6. Express the fraction below in figures.   **3 marks**
   a) A quarter
   b) A half
   c) Four sixths

ANSWER 6   **1mark each**

   a) $\dfrac{1}{4}$

   b) $\dfrac{1}{2}$

   c) $\dfrac{4}{6}$

7. Choose the correct   missing numbers in the sequence
   10, 15, 20, ..., ..., 35.   **(4 marks)**

   a)   30,25
   b)   25,30
   ANSWER 7
   b) 25,30   **2 marks each**

SECTION B: ANSWER ALL QUESTIONS.   **(8 marks)**

8. Work out: 5km + 4m =......dm   **(2marks)**

ANSWER 8
   5km=50,000dm   **(0.5 marks)**
   4m=40dm   **(0.5 marks)**
   5km+4m=50,000dm + 40dm=**50,040dm**   **(1 mark)**

9. Work out the following
   250dag - 25 dg= ......dg   **(2 marks)**

ANSWER 9
250dag = 25,000dg   **(1 mark)**
25,000dg-25dg=24,975dg   **(1 mark)**

10. Find the area of a square whose side is 12cm. **(2 marks)**

   ANSWER 10

   Area of a square = s×s

   A=12cm×12cm =144cm^2

11. Forty students went for a trip to Lake Kivu. If each student

   paid 6,250 Frw. How much did they pay altogether? **(2 marks)**

ANSWER 11

   6250Frwx40= 250,000Frw **(1 mark)**

   They will pay 250,000Frw **(1 mark)**

SECTION C: ANSWER ALL QUESTIONS **(12 marks)**

12. Two angles are supplementary. One angle is 44^0.

   Find the second. **(3 marks)**

ANSWER 12

Supplementary angles add up to 180 degrees. **(1 mark)**

180-44=136 degrees **(1 mark)**

The 2nd angles is 136 degrees. **(1 mark)**

13. The triangle has an area of 100 cm^2 and a base of 10 cm.

   What is the height of the triangle? **(3 marks)**

ANSWER 13

Let A be the area of a triangle, B its base and H its height.

Area of the triangle $A = \dfrac{B \times H}{2}$

$$H = \frac{2 \times A}{B}$$ **(1 mark)**

$$H = \frac{2 \times 100 cm^2}{10 cm}$$ **(1 mark)**

$$H = 20 cm$$ **(1 mark)**

14. The table below shows marks obtained by P4 pupils in

 Mathematics test out of 20.

 5; 6; 10; 10; 15; 12; 18; 16; 17; 15; 19; 11; 12; 13.

 a) How many pupils did the test?   **(1 mark)**

 b) How many pupils scored more than 15 marks?   **(2 marks)**

 c) How many pupils got less than 10 marks?   **(2 marks)**

 d) What was the highest marks scored?   **(1 mark)**

ANSWER 14

 a) 14 pupils did the test.   **(1 mark)**

 b) 4 pupils scored more than 15marks.   **(2 marks)**

 c) 2 pupils got less than 10marks.   **(1 mark)**

 d) The highest marks is 19.   **(1 mark)**

15.Define the term "probability".   **(1 mark)**

Answer 15

<u>Probability</u> is the chance that something will happen.   **(1 mark)**